

From: [McCarter, Jennifer](#)
To: [Bailey, Treasure](#)
Cc: [Morrison, Kendra](#); [Churchill, Stephen](#); [Jacobson, Linda](#); [Kilty, Quinn V](#)
Subject: RE: Comanche field work update 8/7
Date: Monday, August 10, 2020 11:52:57 AM
Attachments: [ATT00001.txt](#)

Thanks Treasure, I think we could arrange for that. I've asked HDR to retain the core boxes at their warehouse in the metro area.

Jennifer McCarter, R.E.M.

Xcel Energy

Environmental Analyst

Environmental Services Department

1800 Larimer St., Suite 1300, Denver, CO 80202-1414

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E: jennifer.mccarter@xcelenergy.com

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From: Bailey, Treasure <Bailey.Treasure@epa.gov>

Sent: Monday, August 10, 2020 11:44 AM

To: McCarter, Jennifer <jennifer.mccarter@xcelenergy.com>

Cc: Morrison, Kendra <Morrison.Kendra@epa.gov>; Churchill, Stephen <Churchill.Stephen@epa.gov>; Jacobson, Linda <Jacobson.Linda@epa.gov>; Kilty, Quinn V <quinn.v.kilty@xcelenergy.com>

Subject: RE: Comanche field work update 8/7

EXTERNAL - STOP & THINK before opening links and attachments.

Hi again, Jennifer,

I'm not sure I'll be able to swing a trip down to Pueblo this week. Scheduling is proving to be a challenge, but I'll follow-up with you later today to confirm. Just wanted to give you a head's up for any planning on your end.

If I'm unable to make it down, then I would like to figure out a way to view the core, maybe once drilling is complete? That could be in Denver or Pueblo as I think timing for that would be somewhat more flexible.

Thanks,

Treasure

From: Bailey, Treasure

Sent: Friday, August 7, 2020 5:42 PM

To: McCarter, Jennifer <jennifer.mccarter@xcelenergy.com>

Cc: Morrison, Kendra <Morrison.Kendra@epa.gov>; Churchill, Stephen <Churchill.Stephen@epa.gov>; Jacobson, Linda <Jacobson.Linda@epa.gov>; Kilty, Quinn V <quinn.v.kilty@xcelenergy.com>

Subject: RE: Comanche field work update 8/7

Thank you, Jennifer. Yes, tentatively looking at Wednesday. I'll check in with you on Monday to see how things are going at MW-1 and finalize plans.

From: McCarter, Jennifer <jennifer.mccarter@xcelenergy.com>

Sent: Friday, August 7, 2020 4:12 PM

To: Bailey, Treasure <Bailey.Treasure@epa.gov>

Cc: Morrison, Kendra <Morrison.Kendra@epa.gov>; Churchill, Stephen <Churchill.Stephen@epa.gov>; Jacobson, Linda <Jacobson.Linda@epa.gov>; Kilty, Quinn V <quinn.v.kilty@xcelenergy.com>

Subject: Comanche field work update 8/7

Hi Treasure, following is an update on drilling this week and a look ahead for next week. I understand you are (tentatively?) planning to come to site next Wednesday, and we can talk before then to discuss any of this information if that would be helpful. Have a great weekend!

Well W-2B update

- Original temp well screen at 38-58 ft in bedrock; water level stabilized at same level as W-2A and was removed to evaluate deeper; boring cleaned out and cored down to 70 ft; confirmed dry shale with no fractures; set temp well screen at 53-73 ft to confirm no water at this depth and no vertical migration.

Well MW-1 – southeast landfill well

- Began drilling deeper well at this location; augered to 15 ft and will core/finish on Monday
- Pending any new information from this boring, and monitoring results from temp wells at other borings, would then transition to MW-2 and MW-4 Tuesday through Thursday.

Here is a brief preliminary descriptions of the borings at W-7 (eastern property boundary south of W-2) and W-8 (SE property boundary). HDR notes that these were developed from the “office”, and were based on a combination of draft logs and phone discussions with field personnel, and were not QC’d by field personnel. So there may be minor any differences between this email and future final logs.

W-7 –Temp well screen placed at 6-21’ and 2’ of bentonite placed above screen to keep the water from surface out.

0-5 colluvium, dry

5-20 clay derived from shale (very highly weathered shale), low moist on fresh breaks.

More moisture 12-20 feet.

20-21 fractured shale, moist.

21-27 competent shale, no fractures, rock moist on fresh breaks.

27-50 competent shale, no fractures, rock dry on fresh breaks.

W-8 –Temp well screen placed at 15-30’ and 3’ of bentonite placed 9-12 to keep the water from surface out.

0-6.5 silty clay w/ sand and gravel, dry

6.5-10 silt w/ sand, low moist

10-20 sand w/ gravel, slight moist to 12’ moist to 20’

20-22 clayey sand w/ gravel, moist

22-30 highly weathered shale, low moist

30-50 competent shale, no fractures, rock dry on fresh breaks.



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